

## WEST Search History





DATE: Thursday, April 15, 2004

Hide?	Set Name	Query	Hit Count
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L24	L23 and (first fluid) and (second fluid)	7
<input type="checkbox"/>	L23	L22 and removing and drying and rinsing and drying	51
<input type="checkbox"/>	L22	coating and object and placing and sealing and reducing and introducing and fluid	1072
<input type="checkbox"/>	L21	L20 and drying and atmospheric	26
<input type="checkbox"/>	L20	L19 and introducing and (rinsing or cleaning)	65
<input type="checkbox"/>	L19	L18 and removing and drying	93
<input type="checkbox"/>	L18	etching and object and placing and sealing and reducing and introducing and fluid	256
<input type="checkbox"/>	L17	etching and object and placing and sealing and reducing and introducing and fluid	0
		<i>DB=USPT; PLUR=YES; OP=ADJ</i>	
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<input type="checkbox"/>	L15	5143103.pn.	1
<input type="checkbox"/>	L14	3460990.pn.	1
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<input type="checkbox"/>	L12	2567820.pn.	1
<input type="checkbox"/>	L11	2567820.pn.	1
<input type="checkbox"/>	L10	5268036.pn.	1
<input type="checkbox"/>	L9	5115576.pn.	1
<input type="checkbox"/>	L8	5115576.pn.	1
<input type="checkbox"/>	L7	5045117.pn.	1
<input type="checkbox"/>	L6	5045117.pn.	1
<input type="checkbox"/>	L5	5045117.pn.	1
<input type="checkbox"/>	L4	5045117.pn.	1
<input type="checkbox"/>	L3	4303454.pn.	1
<input type="checkbox"/>	L2	4303454.pn.	1
<input type="checkbox"/>	L1	5240507.pn.	1

END OF SEARCH HISTORY

## Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 10 of 26 returned.

☐ 1. Document ID: US 20040055623 A1

Using default format because multiple data bases are involved.

L21: Entry 1 of 26

File: PGPB

Mar 25, 2004

PGPUB-DOCUMENT-NUMBER: 20040055623

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040055623 A1

TITLE: Multistep single chamber parts processing method

PUBLICATION-DATE: March 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gray, Donald	Warwick	RI	US	

US-CL-CURRENT: 134/12

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 2. Document ID: US 20040003828 A1

L21: Entry 2 of 26

File: PGPB

Jan 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040003828

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040003828 A1

TITLE: Precision surface treatments using dense fluids and a plasma

PUBLICATION-DATE: January 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Jackson, David P.	Saugus	CA	US	

US-CL-CURRENT: 134/1; 134/26, 134/30

ABSTRACT:

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The present invention is a method, process and apparatus for selective cleaning, drying, and modifying substrate surfaces and depositing thin films thereon using a dense phase gas solvent and admixtures within a first created supercritical fluid antisolvent. Dense fluids are used in combination with sub-atmospheric, atmospheric and super-atmospheric plasma adjuncts (cold and thermal plasmas) to enhance substrate surface cleaning, modification, precision drying and deposition processes herein. Moreover, conventional wet cleaning agents such as hydrofluoric acid and ammonium fluoride may be used with the present invention to perform substrate pre-treatments prior to precision drying and cleaning treatments described herein. Finally, dense fluid such as solid phase carbon dioxide and argon may be used as a follow-on treatment or in combination with plasmas to further treat a substrate surface.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 3. Document ID: US 20030226576 A1

L21: Entry 3 of 26

File: PGPB

Dec 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030226576

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030226576 A1

TITLE: Method and system for removing particles and non-volatile residue from surfaces

PUBLICATION-DATE: December 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gray, Donald	Warwick	RI	US	
Frederick, Charlotte	Tempe	AZ	US	

US-CL-CURRENT: 134/1; 134/10, 134/26, 134/3, 134/30, 134/34

ABSTRACT:

The invention is directed to a controlled environment processing chamber into which solvents, water and/or gases can be introduced for cleaning of an object. The process includes first applying a negative gauge pressure to the chamber to non-condensable gases and then introducing a solvent, solvent mixture, water or gas in either a liquid or vapor state to remove soluble contaminants from the surface of an object being processed in the chamber. Further steps recover residual solvent or solution from the object and chamber. A secondary cleaning step directs a vapor state fluid at high velocity at a solid surface of the object to remove insoluble material left behind after the pretreatment step. A final series of steps recovers any loose impediments or residual liquid or vapor from the chamber and returns the chamber to atmospheric pressure for removal of the cleaned object.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 4. Document ID: US 20030224395 A1

L21: Entry 4 of 26

File: PGPB

Dec 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030224395  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030224395 A1

TITLE: Methods and apparatus for performing submicroliter reactions with nucleic acids or proteins

PUBLICATION-DATE: December 4, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Jovanovich, Stevan Bogdan	Livermore	CA	US	
Salas-Solano, Oscar	San Francisco	CA	US	
Li, Jeng-Thun	Pleasanton	CA	US	

US-CL-CURRENT: 435/6; 435/91.2

## ABSTRACT:

Methods for preparing nanoscale reactions using nucleic acids or proteins are presented. Nucleic acids are captured saturably, yet reversibly, on the internal surface of the reaction chamber, typically a capillary. Excess nucleic acid is removed and the reaction is performed directly within the capillary. Proteins are captured specifically and saturably on the modified inner surface of the reaction chamber, typically a capillary. Excess protein is removed and the reaction is performed directly within the capillary. Devices for effecting the methods of the invention and a system designed advantageously to utilize the methods for high throughput reactions involving nucleic acids or proteins are also provided.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 5. Document ID: US 20030190608 A1

L21: Entry 5 of 26

File: PGPB

Oct 9, 2003

PGPUB-DOCUMENT-NUMBER: 20030190608  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030190608 A1

TITLE: Microfluidic devices comprising biochannels

PUBLICATION-DATE: October 9, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Blackburn, Gary	Pasadena	CA	US	

US-CL-CURRENT: 435/6; 435/287.2, 435/7.1

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## ABSTRACT:

The invention relates to a microfluidic device with microchannels that have separated regions which have a member of a specific binding pair member such as DNA or RNA bound to porous polymer, beads or structures fabricated into the microchannel. The microchannels of the invention are fabricated from plastic and are operatively associated with a fluid propelling component and detector.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 6. Document ID: US 20030131873 A1

L21: Entry 6 of 26

File: PGPB

Jul 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030131873

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030131873 A1

TITLE: Multistep single chamber parts processing method

PUBLICATION-DATE: July 17, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gray, Donald	Warwick	RI	US	

US-CL-CURRENT: 134/12; 134/108, 134/26, 134/30, 134/36, 134/95.2

## ABSTRACT:

The present invention is directed to a controlled environment processing chamber or chambers in which solvents and/or solutions used for processing a material or object can be introduced. The process includes a means of applying a negative gauge pressure to the chamber to remove air or other non-condensable gases. Means are provided for introducing a solvent, solvent mixture or solution in either a liquid or vapor state. A first system recovers solvent(s) or solution(s) from the object being processed and chamber, and a second system, separate from the first system, further recovers residual solvent or solution from the object and chamber. Treatment may be in the form of coating, etching, deposition, cleaning, stripping, plating, adhesion, dissolving, penetrating, anodizing, impregnating, debinding or any other process in which material is removed or deposited on a solid surface by transfer from or to a liquid or gas phase. Another aspect of the invention provides for a method of processing an object using the system described above.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 7. Document ID: US 20030070677 A1

L21: Entry 7 of 26

File: PGPB

Apr 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030070677

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PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030070677 A1

TITLE: Compositions and methods for liquid metering in microchannels

PUBLICATION-DATE: April 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Handique, Kalyan	Ann Arbor	MI	US	
Burns, Mark A.	Ann Arbor	MI	US	

US-CL-CURRENT: 128/203.12

ABSTRACT:

The movement and mixing of microdroplets through microchannels is described employing microscale devices, comprising microdroplet transport channels, reaction regions, electrophoresis modules, and radiation detectors. Microdroplets are metered into defined volumes and are subsequently incorporated into a variety of biological assays. Electronic components are fabricated on the same substrate material, allowing sensors and controlling circuitry to be incorporated in the same device.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 8. Document ID: US 20030045131 A1

L21: Entry 8 of 26

File: PGPB

Mar 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030045131  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030045131 A1

TITLE: Method and apparatus for processing a wafer

PUBLICATION-DATE: March 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Verbeke, Steven Verha	San Francisco	CA	US	
Truman, J. Kelly	Morgan Hill	CA	US	
Lane, Christopher T.	San Jose	CA	US	
Somekh, Sasson R.	Los Altos Hills	CA	US	

US-CL-CURRENT: 438/795

ABSTRACT:

A method of a single wafer wet/dry cleaning apparatus comprising:

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a transfer chamber having a wafer handler contained therein;

a first single wafer wet cleaning chamber directly coupled to the transfer chamber;  
and

a first single wafer ashing chamber directly coupled to the transfer chamber.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 9. Document ID: US 20030045098 A1

L21: Entry 9 of 26

File: PGPB

Mar 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030045098

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030045098 A1

TITLE: Method and apparatus for processing a wafer

PUBLICATION-DATE: March 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Verhaverbeke, Steven	San Francisco	CA	US	
Truman, J. Kelly	Morgan Hill	CA	US	
Lane, Christopher T.	San Jose	CA	US	

US-CL-CURRENT: 438/689; 118/50.1, 134/1, 134/1.3, 204/193, 430/329

ABSTRACT:

A method of a single wafer wet/dry cleaning apparatus comprising:

a transfer chamber having a wafer handler contained therein;

a first single wafer wet cleaning chamber directly coupled to the transfer chamber;  
and

a first single wafer ashing chamber directly coupled to the transfer chamber.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 10. Document ID: US 20030032052 A1

L21: Entry 10 of 26

File: PGPB

Feb 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030032052

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030032052 A1

h e b b g e e e f e b e f b e

TITLE: Methods and apparatus for template capture and normalization for submicroliter reaction

PUBLICATION-DATE: February 13, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hadd, Andy	San Jose	CA	US	
Jovanovich, Stevan	Livermore	CA	US	

US-CL-CURRENT: 435/6

## ABSTRACT:

Methods for preparing nanoscale reactions using nucleic acids are presented. Nucleic acids are captured saturably, yet reversibly, on the internal surface of the reaction chamber, typically a capillary. Excess nucleic acid is removed and the reaction is performed directly within the capillary. Alternatively, the saturably bound nucleic acid is eluted, dispensing a metered amount of nucleic acid for subsequent reaction in a separate chamber. Devices for effecting the methods of the invention and a system designed advantageously to utilize the methods for high throughput nucleic acid sequencing reactions are also provided.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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Term	Documents
DRYING	797008
DRYINGS	510
ATMOSPHERIC	469317
ATMOSPHERICS	320
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(L20 AND DRYING AND ATMOSPHERIC).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	26

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## Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
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Search Results - Record(s) 11 through 20 of 26 returned.

☐ 11. Document ID: US 20020172969 A1

Using default format because multiple data bases are involved.

L21: Entry 11 of 26

File: PGPB

Nov 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020172969

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020172969 A1

TITLE: Chip-based isothermal amplification devices and methods

PUBLICATION-DATE: November 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Burns, Mark A.	Ann Arbor	MI	US	
Burke, David T.	Ann Arbor	MI	US	
Johnson, Brian N.	Ann Arbor	MI	US	
DeNuzzio, John D.	Chapel Hill	NC	US	
Beyer, Wayne F. JR.	Bahama	NC	US	

US-CL-CURRENT: 435/6; 435/287.2, 435/293.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 12. Document ID: US 20020168671 A1

L21: Entry 12 of 26

File: PGPB

Nov 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020168671

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020168671 A1

TITLE: Chip-based isothermal amplification devices and methods

PUBLICATION-DATE: November 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Burns, Mark A.	Ann Arbor	MI	US	
Burke, David T.	Ann Arbor	MI	US	

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Johnson, Brian N.	Ann Arbor	MI	US
DeNuzzio, John D.	Chapel Hill	NC	US
Beyer, Wayne F. JR.	Bahama	NC	US

US-CL-CURRENT: 435/6; 435/287.2, 435/293.1

## ABSTRACT:

Disclosed are methods and compositions for isothermal amplification of nucleic acids in a microfabricated substrate. Methods and compositions for the analysis of isothermally amplified nucleic acids in a microfabricated substrate are disclosed as well. The microfabricated substrates and isothermal amplification and detection methods provided are envisioned for use in various diagnostic methods, particularly those connected with diseases characterized by altered gene sequences or gene expression.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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## 13. Document ID: US 20020124906 A1

L21: Entry 13 of 26

File: PGPB

Sep 12, 2002

PGPUB-DOCUMENT-NUMBER: 20020124906

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020124906 A1

TITLE: Substrate transport apparatus, POD and method

PUBLICATION-DATE: September 12, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Suzuki, Yoko	Tokyo		JP	
Tanaka, Akira	Tokyo		JP	
Kishi, Takashi	Tokyo		JP	

US-CL-CURRENT: 141/98

## ABSTRACT:

A method of using a substrate transport pod is provided, which is suitable for manufacturing semiconductor devices with copper wiring and low dielectric insulating film having dielectric constants of less than 3. The method is based on loading the substrates into a pod from an atmosphere of a first process, and circulating a gaseous atmosphere through interior of the pod in such a way to selectively remove at least one contaminant including moisture, particulate substances or chemical substances, and to expose the substrates to a controlled atmosphere intermittently or continually while the substrates are held in the pod before unloaded from the pod and introduced into a second process. For a pod that is used to house the substrates for the purpose of retaining or transporting, the pod has a pod main body and a door that provides a hermetic sealing, and the pod is made primarily of a material that has moisture absorption factor of less than 0.1%,

and the pod can contact the substrates directly or indirectly and has a conductive area so as to enable static charges to be guided out of the pod.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 14. Document ID: US 20020081744 A1

L21: Entry 14 of 26

File: PGPB

Jun 27, 2002

PGPUB-DOCUMENT-NUMBER: 20020081744

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020081744 A1

TITLE: Methods and apparatuses for characterization of single polymers

PUBLICATION-DATE: June 27, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chan, Eugene Y.	Brookline	MA	US	
Gleich, Lance C.	Somerville	MA	US	
Wellman, Parris S.	Hillsborough	NJ	US	

US-CL-CURRENT: 436/94; 422/99, 436/85, 436/86

ABSTRACT:

The present invention relates to methods and apparatuses for characterization of single polymers. In particular, the invention relates to methods and apparatuses for determination of the velocities of single elongated polymers. Center-of-mass velocity, center-to-center velocity, end-to-end velocity and rise-time velocity are determined using time-correlated measurements of single elongated polymers in two or more detection zones. The invention also relates to methods of determining lengths and molecular masses of single polymers and to methods of determining the distance between landmarks on a single polymers based on their velocities. The invention further relates to methods of single-molecule DNA restriction fragment analysis.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 15. Document ID: US 20020006876 A1

L21: Entry 15 of 26

File: PGPB

Jan 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020006876

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020006876 A1

TITLE: Revolution member supporting apparatus and semiconductor substrate processing apparatus

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PUBLICATION-DATE: January 17, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hongo, Akihisa	Tokyo		JP	
Katakabe, Ichiro	Tokyo		JP	
Morisawa, Shinya	Tokyo		JP	

US-CL-CURRENT: 505/191

## ABSTRACT:

The present invention relates to a revolution member supporting apparatus for holding and rotating a disc-shaped object (object to be rotated) such as a semiconductor wafer. A revolution member supporting apparatus, comprising: a rotatable member which rotates about an axis of rotation; and a plurality of holding members which are disposed along a circle having a center corresponding to the axis of rotation of the rotatable member, and which revolve around the axis of rotation when the rotatable member rotates; wherein the holding members are allowed to swing about their own central axes.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw.D
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☐ 16. Document ID: US 6663833 B1

L21: Entry 16 of 26

File: USPT

Dec 16, 2003

US-PAT-NO: 6663833

DOCUMENT-IDENTIFIER: US 6663833 B1

TITLE: Integrated assay device and methods of production and use

DATE-ISSUED: December 16, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stave; James W.	Elkton	MD		
Teaney, III; George B.	Oxford	PA		
Kroll; Werner	Solingen			DE

US-CL-CURRENT: 422/81, 422/101, 422/103, 422/110, 422/56, 422/58, 422/68.1,  
435/286.5, 435/287.1, 436/165, 436/178, 436/518

## ABSTRACT:

An assay device for the detection of analyte in a sample, methods and immunoassay formats for performing an assay with or without the device, and methods for manufacturing the device are provided. The device is a continuous liquid flow channel having a proximal and a distal end, with a detection membrane in fluid communication with the distal end of the flow channel. Interspersed between the assay buffer and detection membrane, and continuous with the liquid flow channel, are a sample delivery means, one or more reservoirs containing the reagents

necessary for conducting the assay, and, optionally, mixing or incubation reservoirs for combining the sample and reagents. The geometry of the liquid flow channel regulates the flow rate of the liquids through the channel, thereby controlling incubation, mixing and reaction time. The preferred detection membrane is an immunochromatographic test strip containing immobilized reagents. The detection of labeled reagent in a particular area of the detection membrane reflects the presence or relative amount of analyte in the sample. Detection may be achieved visually. One or more liquid flow channels may be contained within a single housing for simultaneous, consecutive, or comparative sample analysis.

29 Claims, 6 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw De
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17. Document ID: US 6489112 B1

L21: Entry 17 of 26

File: USPT

Dec 3, 2002

US-PAT-NO: 6489112  
DOCUMENT-IDENTIFIER: US 6489112 B1

TITLE: Methods and apparatus for template capture and normalization for  
submicroliter reaction

DATE-ISSUED: December 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hadd; Andy	San Jose	CA		
Jovanovich; Stevan	Livermore	CA		

US-CL-CURRENT: 435/6, 435/287.1, 435/287.2, 435/91.1, 435/91.2, 536/23.1, 536/24.3,  
536/24.33

ABSTRACT:

Methods for preparing nanoscale reactions using nucleic acids are presented. Nucleic acids are captured saturably, yet reversibly, on the internal surface of the reaction chamber, typically a capillary. Excess nucleic acid is removed and the reaction is performed directly within the capillary. Alternatively, the saturably bound nucleic acid is eluted, dispensing a metered amount of nucleic acid for subsequent reaction in a separate chamber. Devices for effecting the methods of the invention and a system designed advantageously to utilize the methods for high throughput nucleic acid sequencing reactions are also provided.

20 Claims, 41 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 31

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw De
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☐ 18. Document ID: US 6379929 B1

L21: Entry 18 of 26

File: USPT

Apr 30, 2002

US-PAT-NO: 6379929

DOCUMENT-IDENTIFIER: US 6379929 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Chip-based isothermal amplification devices and methods

DATE-ISSUED: April 30, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Burns; Mark A.	Ann Arbor	MI		
Burke; David T.	Ann Arbor	MI		
Johnson; Brian N.	Ann Arbor	MI		
DeNuzzio; John D.	Chapel Hill	NC		
Beyer, Jr.; Wayne F.	Bahama	NC		

US-CL-CURRENT: 435/91.2; 435/91.1, 436/501

## ABSTRACT:

Disclosed are methods and compositions for isothermal amplification of nucleic acids in a microfabricated substrate. Methods and compositions for the analysis of isothermally amplified nucleic acids in a microfabricated substrate are disclosed as well. The microfabricated substrates and isothermal amplification and detection methods provided are envisioned for use in various diagnostic methods, particularly those connected with diseases characterized by altered gene sequences or gene expression.

48 Claims, 8 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 7

Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims	KMC	Draw. D.
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☐ 19. Document ID: US 6306491 B1

L21: Entry 19 of 26

File: USPT

Oct 23, 2001

US-PAT-NO: 6306491

DOCUMENT-IDENTIFIER: US 6306491 B1

TITLE: Respiratory aids

DATE-ISSUED: October 23, 2001

## INVENTOR-INFORMATION:

h e b b cg b cc e

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kram; Brian H.	Flagstaff	AZ		
Mish; Stanley L.	Flagstaff	AZ		
Muehlbauer; Michael J.	Flagstaff	AZ		
Bain; James R.	Flagstaff	AZ		

US-CL-CURRENT: 428/315.5; 424/422, 424/423, 424/424, 428/305.5, 428/306.6,  
428/314.4, 428/316.6, 428/319.1, 428/320.2, 428/322.7, 435/177, 435/180

## ABSTRACT:

The present invention is directed to materials that assist respiration of living cells contained in cell-containing systems. The materials form air-filled conduits or channels through which gases, such as oxygen and carbon dioxide, can readily exchange by diffusional means between regions of different gas partial pressures. When the present invention is placed within an aqueous environment, such as cell-culture media or host tissue, the invention provides aid to cellular respiration in cell-containing systems.

84 Claims, 94 Drawing figures  
 Exemplary Claim Number: 1  
 Number of Drawing Sheets: 50

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw Ds
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☐ 20. Document ID: US 6214108 B1

L21: Entry 20 of 26

File: USPT

Apr 10, 2001

US-PAT-NO: 6214108

DOCUMENT-IDENTIFIER: US 6214108 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Method of manufacturing silicon carbide single crystal and silicon carbide single crystal manufactured by the same

DATE-ISSUED: April 10, 2001

## INVENTOR-INFORMATION:

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## Record List Display

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US-CL-CURRENT: 117/95; 117/88, 427/249.15, 427/249.17, 427/255.394

## ABSTRACT:

Micropipe defects existing in a silicon carbide single crystal are closed within the single crystal. At least a portion of the micropipe defects opened on the surface of the silicon carbide single crystal (SiC substrate) is sealed up with a coating material. Then heat treatment is performed so as to saturate the inside of the micropipe defects with silicon carbide vapors. By this, the micropipe defects existing in the SiC substrate can be closed within the SiC substrate, not in a newly grown layer. Further, the micropipe defects can be efficiently closed by filling the micropipe defects with a silicon carbide material by preliminarily using super critical fluid and the like.

31 Claims, 16 Drawing figures  
 Exemplary Claim Number: 1  
 Number of Drawing Sheets: 10

Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims	KMIC	Draw D
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Term	Documents
DRYING	797008
DRYINGS	510
ATMOSPHERIC	469317
ATMOSPHERICS	320
(20 AND ATMOSPHERIC AND DRYING).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	26
(L20 AND DRYING AND ATMOSPHERIC).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	26

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